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DECLASS REVIEW BY NIMA / DoD

NPIC/R-53/62

SEARCH FOR NUCLEAR TESTING IN AREAS OF SEISMIC EVENTS
SINO-SOVIET BLOC
(July, September, October 1961)

This report presents the results of a search of available photography covering the areas of 43 unidentified seismic events in the periods 3-30 July, and 21 September-9 October 1961 submitted with OSI Requirement R-176/61. The search was for any signs of preparations for, or effects of, any clandestine nuclear testing in the Sino-Soviet Bloc. No indications of nuclear testing were identified.

Where photography was available, an area having a radius of approximately 25 nautical miles from the coordinates of the epicenter of each event was searched. In several cases only part of the area was covered, and in some cases the area was partially or completely covered by clouds and/or haze.

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It should be kept in mind that characteristics of some of the photography (small scale, poor image, obliquity, partial coverage, weather conditions, etc.) considerably hindered the photographic search.

The following is the status of photographic coverage of the epicenters.

1. Epicenters with partial or complete photographic coverage	39
2. Epicenters without photographic coverage	<u>4</u>
Total	43

Table 1 is the list of seismic events in the order of occurrence, giving the location, photographic coverage available, and the results of photographic interpretation search.

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Table 1. PHOTOGRAPHIC COVERAGE OF AREAS OF UNIDENTIFIED SEISMIC EVENTS
(3-30 July and 21 September-9 October 1961).

Date of Seismic Event	Location, Coordinates, WAC	Mission, Photo Date	Camera or Passes, Frames	Classification	Weather*	Remarks
3 Jul 61	Tibet 30-00N 92-42E WAC 437			TSC		80% coverage, Nothing pertinent identified.
5 Jul 61	Yunnan, China 30-00N 100-00E WAC 436			TSR		80% coverage, Nothing pertinent identified.
5 Jul 61	China 32-12N 104-18E WACs 384, 495			TSC		Complete coverage, Clouds obscure most of area.
5 Jul 61	China 32-12N 104-18E WACs 384, 495			TSR		Nothing pertinent identified.
5 Jul 61	China 32-12N 104-18E WACs 384, 495			TSC		40% coverage, Nothing pertinent identified.
5 Jul 61	Tien Shan 40-00N 78-06E WAC 329, 335			TSR		Complete coverage, Nothing pertinent identified.
5 Jul 61	Tien Shan 40-00N 78-06E WACs 329, 335			TSR		40% coverage, Nothing pertinent identified.
5 Jul 61	Tien Shan 40-00N 78-06E WACs 329, 335			TSR		Complete coverage, Nothing pertinent identified.
5 Jul 61	Tien Shan 40-00N 78-06E WACs 329, 335			TSR		50% coverage, W. half.
5 Jul 61	Tien Shan 40-00N 78-06E WACs 329, 335			TSR		Nothing pertinent identified.
5 Jul 61	Yunnan, China 30-00N 100-00E WAC 436			TSR		Complete coverage, Clouds obscure most of area.
						Nothing pertinent identified.

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Table 1 (Continued)

Date of Seismic Event	Location, Coordinates, WAC	Mission, Photo Date	Camera or Pass/ Frames	Classification	Weather*	Remarks
5 Jul 61	Tien Shan 40-00N 78-00E WACs 329, 335			TSR x TSR		Complete coverage. Nothing pertinent identified. 50% coverage. Nothing pertinent identified.
7 Jul 61	China 28-00N 100-00E WACs 436, 555			TSR		Complete coverage. Clouds obscure most of area. Nothing pertinent identified.
7 Jul 61	China 25-12N 98-48E WAC 555			TSR		No photo coverage.
7 Jul 61	Yunnan, China 30-00N 100-00E WAC 436			TSR		Complete coverage. Clouds obscure most of area. Nothing pertinent identified.
7 Jul 61	China-Burma Border 25-24N 98-48E WAC 555			TSR		No photo coverage.
8 Jul 61	China 28-00N 100-00E WACs 436, 555			TSR		Complete coverage. Clouds obscure most of area. Nothing pertinent identified.
14 Jul 61	China 39-54N 77-54E WACs 329, 335			TSR TSR		Complete coverage. Nothing pertinent identified. 50% coverage. Nothing pertinent identified.
14 Jul 61	Coast of Kamchatka 54-12N 160-12E WAC 194			TSR TSR TSR		Complete coverage. Nothing pertinent identified. Complete coverage. Nothing pertinent identified. 50% coverage. W. half. Nothing pertinent identified.

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Table 1 (Continued)

Date of Seismic Event	Location, Coordinates, WAC	Mission, Photo Date	Camera or Pass/ Frames	Classification	Weather*	Remarks
17 Jul 61	Yunnan, China 28-12N 99-54E WAC 436, 555			TSR		Complete coverage. Clouds obscure most of area. Nothing pertinent identified.
20 Jul 61	Tien Shan 43-12N 88-12E WAC 330			TSR		Complete coverage. Nothing pertinent identified.
20 Jul 61	Rumania 46-54N 23-54E WAC 251			TSR		40% coverage. Nothing pertinent identified. 50% coverage. Nothing pertinent identified.
				TSR		Complete coverage. Nothing pertinent identified. Approx. 50% coverage. Nothing pertinent identified.
- 4 -	22 Jul 61	Yunnan, China 28-00N 100-00E WACs 436, 555		TSR		Complete coverage. Clouds obscure most of area. Nothing pertinent identified.
	22 Jul 61	Kirgiz, SSR 40-06N 70-30E WACs 328, 336		TSR		Complete coverage. Clouds cover much of the area. Complete coverage and active mining area (possibly coal) located at Shurab, approx. 4 NM SE of Epicenter at 40-05N 70-56E.
	23 Jul 61	Koryak Mtns, USSR 61-24N 165-18E WAC 121		TSR		Complete coverage. Nothing pertinent identified. Approx. 70% coverage. Nothing pertinent identified.
	23 Jul 61	Tien Shan 39-54N 77-54E WACs 329, 335		TSR		Complete coverage. Nothing pertinent identified. 50% coverage. Nothing pertinent identified.

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Table 1 (Continued)

Date of Seismic Event	Location, Coordinates, WAC	Mission, Photo Date	Camera or Pass/ Frames	Classification	Weather*	Remarks
~26 Jul 61	Kuril Islands 49-24N 154-12E WAC 206					No photo coverage.
~28 Jul 61	Yunnan, China 28-24N 100-00E WAC 436			TSR		Complete coverage. Clouds obscure most of area. Nothing pertinent identified.
~28 Jul 61	Yunnan, China 28-12N 99-42E WACs 436, 555			TSR		Complete coverage. Clouds obscure most of area. Nothing pertinent identified.
30 Jul 61	Tien Shan 40-00N 78-00E WACs 329, 335			TSR		Complete coverage. Nothing pertinent identified. 50% coverage. Nothing pertinent identified.
~21 Sep 61	Kamchatka 54-00N 160-00E WAC 194			TSR		Complete coverage. Nothing pertinent identified.
				TSR		Complete coverage. Nothing pertinent identified.
				TSR		60% coverage. Nothing pertinent identified.
21 Sep 61	China 36-00N 80-00E WACs 335, 432			TSR		25% coverage. Nothing pertinent identified.
~23 Sep 61	Hindu Kush 35-00N 73-00E WAC 431					No photo coverage.
~25 Sep 61	Kamchatka 56-00N 161-00E WACs 132, 194			TSR		80% coverage. Nothing pertinent identified.
				TSR		Complete coverage. Nothing pertinent identified.

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Table I (Continued)

Date of Seismic Event	Location, Coordinates, WAC	Mission, Photo Date	Camera or Pass/ Frames	Classification	Weather*	Remarks
- 28 Sep 61	Hindu Kush 37-00N 71-00E WAC 336			TSR		Complete coverage. Nothing pertinent identified.
29 Sep 61	Tibet 29-00N 88-00E WAC 438			TSC		60% coverage. Nothing pertinent identified.
- 30 Sep 61	Mongolia 49-00N 90-00E WAC 240			TSR		50% coverage. Nothing pertinent identified.
- 1 Oct 61	China 34-00N 105-00E WAC 384			TSC		90% coverage. Nothing pertinent identified.
- 1 Oct 61	China 34-00N 105-00E WAC 384			TSR		80% coverage. Nothing pertinent identified.
- 1 Oct 61	China 44-00N 87-00E WACs 243, 330			TSR		Complete coverage. Nothing pertinent identified.
- 1 Oct 61	Kamchatka 55-00N 162-00E WAC 194			TSR		Complete coverage. Nothing pertinent identified.
- 1 Oct 61	China 33-00N 104-00E WAC 384			TSR		Complete coverage. Nothing pertinent identified.
- 2 Oct 61	China 34-00N 105-00E WAC 384			TSC		90% coverage. Nothing pertinent identified.
				TSR		80% coverage. Nothing pertinent identified.

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Table 1 (Continued)

Date of Seismic Event	Location, Coordinates, WAC	Mission, Photo Date	Camera or Pass/ Frames	Classification	Weather*	Remarks
- 3 Oct 61	Kamchatka 51-00N 157-00E WAC 206			TSR		90% coverage. Clouds obscure most of area. Nothing pertinent identified.
- 3 Oct 61	Kamchatka 53-00N 159-00E WAC 194			TSR		Complete coverage. Clouds obscure most of area. Nothing pertinent identified.
- 9 Oct 61	China 38-00N 92-00E WAC 333			TSR		40% coverage. Nothing pertinent identified.
- 9 Oct 61	China 38-00N 92-00E WAC 333			TSR		Complete coverage. Clouds obscure most of area. Nothing pertinent identified.
						Complete coverage. Clouds obscure most of area. Nothing pertinent identified.

* CL-Clear, HC-Heavy Clouds, SC-Scattered Clouds, H-Haze.

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